

Википедия

# Chronology of nuclear tests in the USSR (1949-1962)

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On August 5, 1963, the Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space, and Under Water , also known as the "Moscow Treaty", was signed in Moscow .

Below is a chronological table of nuclear tests conducted by the Soviet Union between the start of its nuclear program and the signing of this treaty (i.e. from 1949 to 1962 ). The chronology is based on publicly available data. Further tests from 1964 to 1990 were underground.

Chronology

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
1	<u>RDS-1</u>	29.08.1949	<u>Semipalatinsk test site</u>	Experimental field, P-1	Ground	Tower	30 m	22 kt	Nuclear fission	The first nuclear test. Study of the impact of damaging factors of ground nuclear explosions on various military and civilian objects, as well as on experimental animals. The radioactive trace from the explosion affected 11 administrative districts of the Altai Territory
2	<u>RDS-2</u>	24.09.1951	<u>Semipalatinsk test site</u>	Experimental field, P-1	Ground	Tower	30 m	38 kt	Nuclear fission	Study of the impact of damaging factors of ground nuclear explosions on various military and civilian objects, as well as on experimental animals. After the tests, an abnormal radiation situation developed: 52 testers were in the local radioactive trace of the explosion and received a single dose of about 60 roentgens. Forty people showed the first signs of radiation damage
3	<u>RDS-3</u>	18.10.1951	<u>Semipalatinsk test site</u>	Experimental field	Air	Bomb	380 m	42 kt	Nuclear fission	First air test by dropping from an airplane. Study of the effect of damaging factors of airborne nuclear explosions on various military and civilian objects, as well as on experimental animals
4	<u>RDS-6s</u>	12.08.1953	<u>Semipalatinsk test site</u>	Experimental field, P-1	Ground	Tower	30 m	400 kt	Puff	First test of a hydrogen bomb. Study of the impact of damaging factors of powerful ground nuclear explosions on various military and civilian

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
										objects, as well as on experimental animals
5	<u>RDS-4</u>	23.08.1953	Semipalatinsk test site	Experimental field	Air	Bomb	600 m	28 kt	Nuclear fission	The first test of a tactical atomic bomb.
6	<u>RDS-5</u>	03.09.1953	Semipalatinsk test site	Experimental field	Air	Bomb	255 m	5.8 kt	Nuclear fission	
7		08.09.1953	Semipalatinsk test site	Experimental field	Air	Bomb	220 m	1.6 kt	Nuclear fission	
8		10.09.1953	Semipalatinsk test site	Experimental field	Air	Bomb		4.9 kt	Nuclear fission	
9	<u>RDS-2</u>	14.09.1954	Totsky training ground	-	Air	Bomb	350 m	38 kt	Nuclear fission	The first military exercises with the use of an atomic bomb. . About 45 thousand servicemen took part in the exercises. The exercises were led by Marshal of the Soviet Union G. K. Zhukov
10	RDS-4M	29.09.1954	Semipalatinsk test site	Experimental field	Air	Bomb	210 m	0.2 kt	Nuclear fission	Modification of RDS-4 with minimal use of plutonium, dropped from Il-28
11		01.10.1954	Semipalatinsk test site	Experimental field			105 m	0.03 kt	Nuclear fission	
12		03.10.1954	Semipalatinsk test site	Experimental field			130 m	2 ct	Nuclear fission	
13		05.10.1954	Semipalatinsk test site	Experimental field, P-3	Ground		0 m	4 ct	Nuclear fission	Same thing, but explosion on impact with the ground
14	RDS-5 with thermonuclear initiator	08.10.1954	Semipalatinsk test site	Experimental field	Air	Bomb	295 m	0.8 kt	Nuclear fission	
15	<u>RDS-9</u>	19.10.1954	Semipalatinsk test site	Experimental field, P-2	Ground	Tower	15 m	<0.0001 kt	Nuclear fission	First failure of a nuclear charge. Elements of a nuclear charge, including pieces of plutonium, were scattered within a radius of 0.5 km from the center of the explosion
16	<u>RDS-3I</u>	23.10.1954	Semipalatinsk test site	Experimental field, P-5	Air	Bomb	410 m	62 kt	Nuclear fission	
17		26.10.1954	Semipalatinsk test site	Experimental field	Air	Bomb	110 m	2.8 kt	Nuclear fission	
18	<u>RDS-5</u>	10/30/1954	Semipalatinsk test site	Experimental field, P-3	Ground	Bomb	55 m	10 kt	Nuclear fission	The aerial bomb explosion occurred at a low altitude and was classified as a ground explosion.
19	<u>RDS-9</u>	29.07.1955	Semipalatinsk test site	Experimental field	Ground	Platform	2.5 m	1.3 kt	Nuclear fission	First successful test of the RDS-9 charge for a torpedo.
20		02.08.1955	Semipalatinsk test site	Experimental field	Ground		2.5 m	12 kt	Nuclear fission	
21		05.08.1955	Semipalatinsk test site	Experimental field	Ground		1.5 m	1.2 kt	Nuclear fission	
22	<u>RDS-9 (T-5)</u>	21.09.1955	Novaya Zemlya	Black Bay Bay	Underwater	Minesweeper	-12 m	3.5 kt	Nuclear fission	The first nuclear test on

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
			<u>Polygon</u>							<u>Novaya Zemlya</u> and the first underwater test.
23	<u>RDS-27</u>	06.11.1955	Semipalatinsk test site	Experimental field, P-3	Air	Bomb	1000 m	250 kt	Puff	Study of the impact of damaging factors of powerful air explosions on various military and civilian objects, as well as on experimental animals
24	<u>RDS-37</u>	22.11.1955	Semipalatinsk test site	Experimental field, P-5	Air	Bomb	1550 m	1600 kt	Thermonuclear	The first test of a two-stage thermonuclear bomb. To study the impact of damaging factors of powerful air explosions on various military and civilian targets, as well as on experimental animals. The most powerful charge tested at the Semipalatinsk test site. The bomb was dropped from the carrier aircraft on the second attempt. On November 20, 1955, in dense cloud conditions, due to the failure of the altimeter on the Tu-16 carrier aircraft, the crew had to make a blind forced landing with a bomb for the first time at the Zhana-Semey airfield in Semipalatinsk. During the explosion, the ceiling of one of the houses in the village of Malye Akzhary collapsed from the shock wave. A three-year-old girl died under the rubble. 6 soldiers fell asleep in a trench 36 km from the epicenter. One died of suffocation
25	<u>R-5M</u>	02.02.1956	<u>Kapustin Yar</u>	-	Ground	Rocket	0 m	0.3 kt	Nuclear fission	The first launch of a missile with a nuclear charge.

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
26	<u>RDS-41</u>	16.03.1956	Semipalatinsk test site	Experimental field	Ground	-	0.4 m	14 kt	Nuclear fission	
27		25.04.1956	Semipalatinsk test site	Experimental field	Ground	-	1 m	5.5 kt	Nuclear fission	
28	<u>No data available</u>	24.08.1956	Semipalatinsk test site	Experimental field, P-5	Ground	Tower	93 m	27 ct	Nuclear	
29	<u>RDS-37</u>	30.08.1956	Semipalatinsk test site	Experimental field, P-5	Air	Bomb	1100 m	900 kt	Thermonuclear	
30		02.09.1956	Semipalatinsk test site	Experimental field	Air	Bomb	1050 m	51 kt	Nuclear fission	
31		10.09.1956	Semipalatinsk test site	Experimental field, P-3	Air	Bomb	270 m	38 kt	Nuclear fission	<u>Second military exercise using an atomic bomb</u> .
32	<u>RDS-37</u>	17.11.1956	Semipalatinsk test site	Experimental field	Air	Bomb	2000 m	900 kt	Thermonuclear	
33		14.12.1956	Semipalatinsk test site	Experimental field, P-5	Air	Bomb	1965 m	40 kt	Nuclear fission	
34	<u>Operation "ZUR-215"</u>	19.01.1957	Kapustin Yar	-	Air	Anti-aircraft missile	10370 m	10 kt	Nuclear fission	The first launch of a nuclear-tipped anti-aircraft missile.
35		08.03.1957	Semipalatinsk test site	Experimental field	Air	Bomb	610 m	19 ct	Nuclear fission	The first special experimental study of the production of transuranium elements by the explosive method
36		03.04.1957	Semipalatinsk test site	Experimental field	Air	Bomb	1100 m	42 kt	Nuclear fission	Special experimental study of the production of transuranium elements by explosive method
37		06.04.1957	Semipalatinsk test site	Experimental field	Air	Bomb	1145 m	57 kt	Nuclear fission	Special experimental study of the production of transuranium elements by explosive method
38	Product "245"?	10.04.1957	Semipalatinsk test site	Experimental field	Air	Bomb	2000 m	680 kt	Thermonuclear	Presumably testing the first serial thermonuclear bomb for strategic aviation. Special experimental study of the production of transuranium elements by explosive method
39		12.04.1957	Semipalatinsk test site	Experimental field	Air	Bomb	1145 m	22 kt	Nuclear fission	Special experimental study of the production of transuranium elements by explosive method
40	Product "205"?	16.04.1957	Semipalatinsk test site	Experimental field	Air	Bomb	2000 m	320 kt	Thermonuclear	Special experimental study of the production of transuranium elements by

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
										explosive method
41		22.08.1957	Semipalatinsk test site	Experimental field	Air	Bomb	1880 m	520 kt	Thermonuclear	
42		26.08.1957	Semipalatinsk test site	Experimental field	Air	Bomb	410 m	0.1 kt	Nuclear fission	Nuclear Charge Safety Research. First Experiment to Study Accidental, Unscheduled Detonation of a Charge of Explosives in a Nuclear Device at a Single Point ("Single-Point Nuclear Safety")
43		07.09.1957	Novaya Zemlya Polygon	Black lip	Ground	Tower	15 m	32 kt	Nuclear fission	The first and only ground nuclear explosion on Novaya Zemlya . The detonation of the nuclear charge occurred only on the second attempt. The first attempt was a misfire due to a burnt fuse in the explosive circuit.
44		13.09.1957	Semipalatinsk test site	Experimental field	Air	Bomb	780 m	5.9 kt	Nuclear fission	
45	<u>RDS-37</u>	24.09.1957	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2000 m	1600 kt	Thermonuclear	First air test on Novaya Zemlya .
46		26.09.1957	Semipalatinsk test site	Experimental field	Air	Bomb	2000 m	13 kt	Nuclear fission	
47	<u>RDS-37</u>	06.10.1957	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2120 m	2900 kt	Thermonuclear	Testing of the "46A" charge for the R-7 ICBM .
48	<u>RDS-9 ( T-5 )</u>	10.10.1957	Novaya Zemlya Polygon	Bay of Black Bay	Underwater	Torpedo	-30 m	10 kt	Nuclear	The first launch of a torpedo with a nuclear charge.
49		28.12.1957	Semipalatinsk test site	Experimental field	Air	Bomb	615 m	12 kt	Nuclear fission	
50		04.01.1958	Semipalatinsk test site	Experimental field	Air	Bomb	400 m	1.3 kt	Nuclear fission	
51		17.01.1958	Semipalatinsk test site	Experimental field	Air	Bomb	500 m	0.5 kt	Nuclear fission	
52	Product "49" in experimental execution	23.02.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2500 m	860 kt	Thermonuclear	
53		27.02.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2500 m	250 kt	Thermonuclear	
54		27.02.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	1500 kt	Thermonuclear	
55		13.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	475 m	1.2 kt	Nuclear fission	
x		13.03.1958	Semipalatinsk test site	Experimental field	-	-	-	<0.001 kt	-	The test is not included in the list because the charge did not

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
										produce the required power.
56		14.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	1030 m	35 kt	Nuclear fission	
57		14.03.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	40 kt	Nuclear fission	
58		15.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	965 m	14 kt	Nuclear fission	
x		15.03.1958	Semipalatinsk test site	Experimental field	-	-	-	<0.001 kt	-	The test is not included in the list because the charge did not produce the required power.
59		18.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	290 m	0.16 kt	Nuclear fission	
60		20.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	1015 m	12 kt	Nuclear fission	
61	Product "49" with a standard primary unit	21.03.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2500 m	650 kt	Thermonuclear	
62		22.03.1958	Semipalatinsk test site	Experimental field	Air	Bomb	1415 m	18 ct	Nuclear fission	
63		30.09.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1500 m	1200 kt	Thermonuclear	
64		30.09.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2500 m	900 kt	Thermonuclear	
65		02.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1400 m	290 kt	Thermonuclear	
66		02.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	40 kt	Nuclear fission	
67		04.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	800 m	9 ct	Nuclear fission	
68		05.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1200 m	15 kt	Nuclear fission	
69		06.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1200 m	5.5 kt	Nuclear fission	
70		10.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	68 kt	Thermonuclear	
71		12.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	1450 kt	Thermonuclear	
72		15.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2150 m	1500 kt	Thermonuclear	
73	RDS-46A?	18.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	2900 kt	Thermonuclear	
74		19.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	40 kt	Nuclear fission	
75		19.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	900 m	0.001 kt	Nuclear fission	
76		20.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	440 kt	Thermonuclear	Test of a high-power thermonuclear charge with a high-purity nuclear charge

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
77		21.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	270 m	2 ct	Nuclear fission	
78	RDS-46A?	22.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2070 m	2800 kt	Thermonuclear	
79		24.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1525 m	1000 kt	Thermonuclear	
80		25.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1500 m	190 kt	Thermonuclear	
81		25.10.1958	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	300 m	0.05 kt	Nuclear fission	
82		01.11.1958	Kapustin Yar	-	Air	Rocket	12000 m	10 kt	Nuclear fission	
83		03.11.1958	Kapustin Yar	-	Air	Rocket	12000 m	10 kt	Nuclear fission	The final test before the 33-month moratorium.
84		01.09.1961	Semipalatinsk test site	Experimental field	Air	-	660 m	16 kt	Nuclear fission	
85		04.09.1961	Semipalatinsk test site	Experimental field	Air	-	725 m	9 ct	Nuclear fission	
86		05.09.1961	Semipalatinsk test site	Experimental field	Air	-	500 m	16 kt	Nuclear fission	
87		06.09.1961	Semipalatinsk test site	Experimental field	Air	-	685 m	1.1 kt	Nuclear fission	
88	Operation Thunderstorm	06.09.1961	Kapustin Yar	-	High-rise	Rocket	22700 m	10.5 kt	Nuclear fission	
89		09.09.1961	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.5 kt	Nuclear fission	Nuclear Charge Safety Research. First experiment to study accidental, non-standard detonation of a charge of explosives in a nuclear device at one point ("single-point nuclear safety"). The maximum energy release level was obtained during such tests
90	The Air Teaching	10.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	2000 m	2700 kt	Thermonuclear	
91	Exercise "Volga"	10.09.1961	Novaya Zemlya Polygon	The Black Bay area	Air	Rocket	390 m	12 kt	Nuclear fission	Testing of a tactical missile.
92		10.09.1961	Semipalatinsk test site	Experimental field	Air	-	180 m	0.88 kt	Nuclear fission	
93		11.09.1961	Semipalatinsk test site	Experimental field	Air	-	-	0.3 kt	Nuclear fission	
94	The Rose Teaching	12.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Rocket	1190 m	1150 kt	Thermonuclear	
95	Exercise "Volga"	13.09.1961	Novaya Zemlya Polygon	The Black Bay area	Air	Rocket	250 m	6 ct	Nuclear fission	Due to the low altitude of the explosion, the test site was contaminated.
96		13.09.1961	Semipalatinsk test site	Experimental field	Air	-	710 m	10 kt	Nuclear fission	



No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
97		14.09.1961	Semipalatinsk test site	Experimental field	Ground	-	0.5 m	0.4 kt	Nuclear fission	
98		14.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1700 m	1200 kt	Thermonuclear	
99	<u>The Rose Teaching</u>	16.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Rocket	-	830 kt	Thermonuclear	
100		17.09.1961	Semipalatinsk test site	Experimental field	Air	-	695 m	21 kt	Nuclear fission	
101		18.09.1961	Novaya Zemlya Polygon	Experimental field	Air	-	1500 m	1000 kt	Thermonuclear	
102		18.09.1961	Semipalatinsk test site	Experimental field	Ground	-	1 m	0.004 kt	Nuclear fission	
103		18.09.1961	Semipalatinsk test site	Experimental field	Air	-	-	0.75 kt	Nuclear fission	
104		19.09.1961	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.03 kt	Nuclear fission	
105		20.09.1961	Semipalatinsk test site	Experimental field	Air	-	280 m	4.8 kt	Nuclear fission	
106		20.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1600 m	1500 kt	Thermonuclear	
107		21.09.1961	Semipalatinsk test site	Experimental field	Air	-	110 m	0.8 kt	Nuclear fission	
108		22.09.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1300 m	260 kt	Thermonuclear	
109		26.09.1961	Semipalatinsk test site	Experimental field	Air	-	665 m	1.2 kt	Nuclear fission	
110		01.10.1961	Semipalatinsk test site	Experimental field	Air	-	700 m	3 ct	Nuclear fission	
111		02.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1500 m	250 kt	-	
112		04.10.1961	Semipalatinsk test site	Experimental field	Air	-	605 m	13 kt	Nuclear fission	
113	Warhead KR X-20M ?	04.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2100 m	3000 kt	Thermonuclear	
114		06.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2700 m	4000 kt	Thermonuclear	
115	<u>Operation Thunder</u>	06.10.1961	Kapustin Yar	-	High-rise	Rocket	41300 m	40 kt	Nuclear fission	
116		08.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Cruise missile	1450 m	15 kt	Nuclear fission	The first test of a cruise missile with a nuclear charge.
117		11.10.1961	Semipalatinsk test site	Degelen, Adit B-1	Underground	-	-125 m	1 ct	Nuclear fission	<u>The first underground nuclear explosion</u> . In August 1964, the nuclear explosion cavity was opened by driving a tunnel. The exposure dose rate in the cavity center was 10 mR/h, the maximum value of 25 mR/h was noted at the cavity boundary at a distance of 34 m from the

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										explosion center.
118		12.10.1961	Semipalatinsk test site	Experimental field	Air	-	670 m	15 kt	Nuclear fission	
119		17.10.1961	Semipalatinsk test site	Experimental field	Air	-	505 m	6.6 kt	Nuclear fission	
120		19.10.1961	Semipalatinsk test site	Experimental field	Air	-	710 m	10 kt	Nuclear fission	
121	<u>The Rainbow Teaching</u>	20.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Rocket	530-1000 m	1450 kt	Thermonuclear	
122	<u>The Coral Teaching</u>	23.10.1961	Novaya Zemlya Polygon	Black Bay Bay	Underwater	Torpedo	-20 m	4.8 kt	Nuclear fission	
123		23.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3500 m	12500 kt	Thermonuclear	
124		25.10.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1450 m	300 kt	Thermonuclear	
125		25.10.1961	Semipalatinsk test site	Experimental field	Air	-	-	0.5 kt	Nuclear fission	
126	<u>The Coral Teaching</u>	10/27/1961	Novaya Zemlya Polygon	Black Bay Bay	Driven	Torpedo	-	16 kt	Nuclear fission	Explosion on the surface of the water.
127	<u>Operation K-1</u>	10/27/1961	<u>Sary-Shagan</u>	-	Space	Rocket	150000 m	1.2 kt	Nuclear fission	The first cosmic nuclear explosion.
128	<u>Operation K-2</u>	10/27/1961	Sary-Shagan	-	Space	Rocket	300000 m	1.2 kt	Nuclear fission	The second and highest-altitude space nuclear explosion in the USSR.
129		10/30/1961	Semipalatinsk test site	Experimental field	Air	-	470 m	0.09 kt	Nuclear fission	
130	AN602 " <u>Tsar Bomba</u> "	10/30/1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	4000 m	58600 kt	Thermonuclear	The most powerful nuclear explosion in history. Testing of a super-powerful charge (nominal up to 100 Mt) developed by VNIIEF (Arzamas-16) under conditions of a partial explosion. The power exceeded the calculated one by 17.2%
131		10/31/1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2200 m	5000 kt	Thermonuclear	
132		10/31/1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1530 m	400 kt	Thermonuclear	
133		01.11.1961	Semipalatinsk test site	Experimental field	Air	-	475 m	2.7 kt	Nuclear fission	
134		02.11.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1400 m	120 kt	Thermonuclear	
135		02.11.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1500 m	280 kt	-	

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
136		02.11.1961	Semipalatinsk test site	Experimental field	Air	-	645 m	0.6 kt	Nuclear fission	
137		03.11.1961	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.001 kt	Nuclear fission	
138		03.11.1961	Semipalatinsk test site	Experimental field	Air	-	635 m	0.09 kt	Nuclear fission	
139		04.11.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1770 m	15 kt	Nuclear fission	
140		04.11.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1750 m	1500 kt	Thermonuclear	
141		04.11.1961	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	2240 m	6 ct	Nuclear fission	
142		04.11.1961	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.2 kt	Nuclear fission	
143		02.02.1962	Semipalatinsk test site	Degelen, Adit A-1	Underground	-	-	15 kt	Nuclear fission	The first underground nuclear explosion for the purpose of studying damaging factors.
144		01.08.1962	Semipalatinsk test site	Experimental field	Air	-	430 m	2.4 kt	Nuclear fission	
145		03.08.1962	Semipalatinsk test site	Experimental field	Air	-	180 m	1.6 kt	Nuclear fission	
146		04.08.1962	Semipalatinsk test site	Experimental field	Air	-	390 m	3.8 kt	Nuclear fission	
147		05.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3600 m	21100 kt	Thermonuclear	The third most powerful nuclear explosion in history.
148	Probably 901A4 ( <a href="http://elib.biblioatom.ru/text/nykolay_zavodchane-i-voenpredy_2017/go,58">http://elib.biblioatom.ru/text/nykolay_zavodchane-i-voenpredy_2017/go,58</a> )	07.08.1962	Semipalatinsk test site	Experimental field	Ground	Rocket	0 m	9.9 kt	Nuclear fission	Due to the failure of the high-altitude fuse (probably the Triangle radio sensor of the 3R10 missile of the Luna complex ), a ground explosion occurred, not an air explosion. The test site's radiation reconnaissance group found itself in a zone of intense radiation fallout. The group received a dose of 40 roentgens. A radioactive cloud covered the testers' town. Radiation levels reached 0.5-1.0 R/h.
149		10.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1560 m	400 kt	Nuclear fission	
150		18.08.1962	Semipalatinsk test site	Experimental field	Air	-	710 m	7.4 kt	Nuclear fission	
151		18.08.1962	Semipalatinsk test site	Experimental field	Air	-	310 m	5.8 kt	Nuclear fission	

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
152		20.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2500 m	2800 kt	Thermonuclear	
153		21.08.1962	Semipalatinsk test site	Experimental field	Air	-	590 m	23 kt	Nuclear fission	
154		22.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1700 m	1600 kt	Thermonuclear	
155	Exercise "Shkval"	22.08.1962	Novaya Zemlya Polygon	Bashmachnaya Bay	Air	Cruise missile	60 m	6 ct	Nuclear fission	
156		22.08.1962	Semipalatinsk test site	Experimental field	Air	-	740 m	3 ct	Nuclear fission	
157		23.08.1962	Semipalatinsk test site	Experimental field	Air	-	680 m	2.5 kt	Nuclear fission	
158		25.08.1962	Semipalatinsk test site	Experimental field	Air	-	715 m	1 ct	Nuclear fission	
159		25.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2980 m	10000 kt	Thermonuclear	
160		27.08.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3000 m	4200 kt	Thermonuclear	
161		27.08.1962	Semipalatinsk test site	Experimental field	Air	-	245 m	11 ct	Nuclear fission	
162		31.08.1962	Semipalatinsk test site	Experimental field	Air	-	700 m	2.7 kt	Nuclear fission	
163		02.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1300 m	80 kt	Nuclear fission	
x		06.09.1962	Semipalatinsk test site	Experimental field	Air	-	-	<0.001 kt	Nuclear fission	The test is not included in the list because the charge did not produce the required power.
164	The Tulip Teaching	08.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Rocket	1725 m	1900 kt	Thermonuclear	
165		15.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	3100 kt	Thermonuclear	
166		16.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	-	3250 kt	Thermonuclear	
167		18.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2000 m	1350 kt	Thermonuclear	
x		18.09.1962	Semipalatinsk test site	Experimental field	Air	-	-	10 kt	-	Failed nuclear explosion. The test is not included in the list because the charge, although it exploded, did not produce the required power.
168		19.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3280 m	10000 kt	Thermonuclear	
169		21.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3000 m	2400 kt	Thermonuclear	
170		22.09.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.21 kt	Nuclear fission	
171		24.09.1962	Semipalatinsk test site	Experimental field	Air	-	630 m	1.2 kt	Nuclear fission	
172		25.09.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	7 ct	Nuclear fission	

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
173		25.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	4090 m	19100 kt	Thermonuclear	The fifth most powerful nuclear explosion in history. Testing of a super-powerful charge (nominal up to 50 Mt) developed by VNIITF (Chelyabinsk-70) under conditions of a partial explosion
174		27.09.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3900 m	20000 kt	Thermonuclear	The fourth most powerful nuclear explosion in history. Testing of a super-powerful charge (nominal up to 50 Mt) developed by VNIIEF (Arzamas-16) under conditions of a partial explosion
175		28.09.1962	Semipalatinsk test site	Experimental field	Air	-	695 m	1.3 kt	Nuclear fission	
176		06.10.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1440 m	320 kt	-	
177		09.10.1962	Semipalatinsk test site	Experimental field	Air	-	645 m	8 ct	Nuclear fission	
178		09.10.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	3000 m	15 kt	Nuclear fission	
179		10.10.1962	Semipalatinsk test site	Experimental field	Air	-	665 m	9.2 kt	Nuclear fission	
180		13.10.1962	Semipalatinsk test site	Experimental field	Air	-	720 m	4.9 kt	Nuclear fission	
181		14.10.1962	Semipalatinsk test site	Experimental field	Air	-	725 m	10 kt	Nuclear fission	
182		20.10.1962	Semipalatinsk test site	Experimental field	Air	-	635 m	6.7 kt	Nuclear fission	
183		22.10.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3230 m	8200 kt	Thermonuclear	
184	<a href="#">Operation K-3</a>	22.10.1962	Sary-Shagan, 180 km from Zhezkazgan	-	Space	Rocket	290000 m	300 kt	Nuclear fission	
185		10/27/1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1550 m	260 kt	Thermonuclear	
186		28.10.1962	Semipalatinsk test site	Experimental field	Air	-	670 m	7.8 kt	Nuclear fission	
187	<a href="#">Operation K-4</a>	28.10.1962	Sary-Shagan	-	Space	Rocket	150000 m	300 kt	Nuclear fission	
188		28.10.1962	Semipalatinsk test site	Experimental field	Air	-	645 m	7.8 kt	Nuclear fission	
189		29.10.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1550 m	360 kt	Thermonuclear	
190		10/30/1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	1.2 kt	Nuclear fission	

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
191		10/30/1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1500 m	280 kt	Thermonuclear	
192		10/31/1962	Semipalatinsk test site	Experimental field	Air	-	690 m	10 kt	Nuclear fission	
193		01.11.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1500 m	240 kt	Thermonuclear	
194	Operation K-5	01.11.1962	Sary-Shagan	-	High-rise	Rocket	59000 m	300 kt	Nuclear fission	
195		01.11.1962	Semipalatinsk test site	Experimental field	Air	-	700 m	3 ct	Nuclear fission	
196		03.11.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1500 m	390 kt	Thermonuclear	
197		03.11.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	4000 m	45 kt	-	
198		03.11.1962	Semipalatinsk test site	Experimental field	Air	-	710 m	4.7 kt	Nuclear fission	
199		04.11.1962	Semipalatinsk test site	Experimental field	Air	-	600 m	8.4 kt	Nuclear fission	
200		05.11.1962	Semipalatinsk test site	Experimental field	Ground	Tower	15 m	0.4 kt	Nuclear fission	
201		11.11.1962	Semipalatinsk test site	Experimental field	Ground	Tower	8 m	0.1 kt	Nuclear fission	
202		13.11.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.001 kt	Nuclear fission	
203		14.11.1962	Semipalatinsk test site	Experimental field	Air	-	660 m	12 kt	Nuclear fission	
204		17.11.1962	Semipalatinsk test site	Experimental field	Air	-	715 m	18 ct	Nuclear fission	
205		24.11.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.001 kt	Nuclear fission	
206		26.11.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.031 kt	Nuclear fission	
207		01.12.1962	Semipalatinsk test site	Experimental field	Air	-	680 m	2.4 kt	Nuclear fission	
208		18.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1600 m	110 kt	-	
209		18.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1500 m	69 kt	Nuclear fission	
210		20.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1070 m	8.3 kt	Nuclear fission	
211		22.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1050 m	6.3 kt	Nuclear fission	
212		23.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1460 m	430 kt	Thermonuclear	
213		23.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1470 m	8.3 kt	Nuclear fission	
214		23.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	1270 m	2.4 kt	Nuclear fission	
215		23.12.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.001 kt	Nuclear fission	
216		24.12.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.007 kt	Nuclear fission	
217		24.12.1962	Semipalatinsk test site	Experimental field	Ground	-	0 m	0.028 kt	Nuclear fission	The last atmospheric nuclear test at the

No.	Trial	Date	Venue	The site	Method of explosion	Placing the charge	Height	Power	Type of charge action	Notes
										Semipalatinsk test site
218		24.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	1320 m	1100 kt	Thermonuclear	
219		24.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	3750 m	24200 kt	Thermonuclear	The second most powerful nuclear explosion in history. Testing of a super-powerful charge (nominal up to 50 Mt) developed by VNIITF (Chelyabinsk-70) under conditions of a non-full-scale explosion
220		25.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	Bomb	2250 m	3100 kt	Thermonuclear	
221		25.12.1962	Novaya Zemlya Polygon	Dry Nose, D-2	Air	-	990 m	8.5 kt	Nuclear fission	The last atmospheric test at the Novaya Zemlya test site and in the USSR.

See also

- Chronology of nuclear tests in the USSR (1964-1990)
- The creation of the Soviet atomic bomb

Links

- Andryushi, LA.* Mikhailov VN: Catalog of Worldwide Nuclear Testing ([https://web.archive.org/web/20131219131618/http://www.iss-atom.ru/ksenia/catal\\_nt/](https://web.archive.org/web/20131219131618/http://www.iss-atom.ru/ksenia/catal_nt/)) . Accessed 4 March 2013. Archived from the original ([http://www.iss-atom.ru/ksenia/catal\\_nt/](http://www.iss-atom.ru/ksenia/catal_nt/)) on 19 December 2013. ([http://www.iss-atom.ru/ksenia/catal\\_nt/](http://www.iss-atom.ru/ksenia/catal_nt/))

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